

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A bone marker for use in image guided surgery, comprising:
an anchor mechanism configured to be attached to a bone;
a support having a first end and a second end, the first end attached to the anchor mechanism wherein the anchor mechanism comprises at least one fixation member for anchoring the bone marker in the bone, and a coupling member for coupling the support to the fixation member; and
at least one reference member attached to the second end of the support, the at least one reference member configured to be detected by an image guided system to identify the location of the at least one reference member relative to the bone, wherein the support comprises at least one resiliently deformable limb configured such that, when the anchor mechanism is attached to the bone, at least a portion of the at least one limb extends away from the bone.
2. (Previously Presented) The bone marker of claim 1, wherein the support further comprises at least one rigid limb.
3. (Previously Presented) The bone marker of claim 1, wherein the resiliently deformable limb comprises a tightly wound helical spring.
4. (Previously Presented) The bone marker of claim 3, wherein the spring has flat abutting surfaces.
5. (Previously Presented) The bone marker of claim 1, wherein a resiliently deformable limb is made from a damped elastomer.

6. (Previously Presented) The bone marker of claim 1, wherein the resiliently deformable limb is made from a shape memory alloy.
7. (Previously Presented) The bone marker of claim 1, wherein the at least one limb has an inner diameter and an outer diameter and the ratio of the outer diameter to the inner diameter is at most 3:1.
8. (Cancelled)
9. (Currently Amended) The bone marker of claim 8, wherein the coupling member is adjustable to allow rotation of the support about the fixation member.
10. (Currently Amended) The bone marker of claim 8, wherein the at least one fixation member is a threaded screw.
11. (Previously Presented) The bone marker of claim 10, wherein the diameter of the threaded screw is not more than about 2 mm.
12. (Previously Presented) The bone marker of claim 1, wherein the reference members transmit signals.
13. (Previously Presented) The bone marker of claim 1, wherein the reference members reflect signals.
14. (Cancelled)
15. (Previously Presented) The bone marker of claim 1, wherein the at least one resiliently deformable limb has an axis and is configured to be deflected up to 90 degrees away from the axis before its elastic limit is exceeded.

16. (Currently Amended) The bone marker of claim 1, wherein the at least one resiliently deformable limb has an axial length and an axis and is configured to be deflected perpendicularly away from the axis by up to a distance of 70% of the axial length before its elastic limit is exceeded.

17. (Previously Presented) The bone marker of claim 2, wherein the at least one resiliently deformable limb has a first end and a second end, the first end being attached to the anchoring member and the second end being attached to the at least one rigid limb.

18. (Previously Presented) The bone marker of claim 17, wherein the first end of the at least one resiliently deformable limb is attached to the anchoring member.

19. (Currently Amended) ~~The bone marker of claim 1,~~ A bone marker for use in image guided surgery, comprising:

an anchor mechanism configured to be attached to a bone;

a support having a first end and a second end, the first end attached to the anchor mechanism, and wherein the support comprises a first limb, a second limb and a third limb, and at least one of the first limb, the second limb and the third limb is configured to be resiliently deformable such that, when the anchor mechanism is attached to the bone, at least a portion of the at least the first limb, the second limb and the third limb extends away from the bone; and

at least one reference member attached to the second end of the support, the at least one reference member configured to be detected by an image guided system to identify the location of the at least one reference member relative to the bone, and wherein the at least one reference member comprises a first reference member attached to the first limb, a second reference member attached to the second limb, and a third reference member attached to the third ~~second~~ limb.